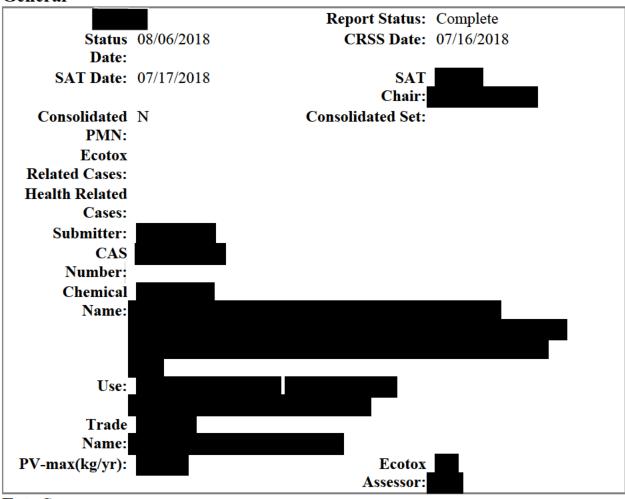
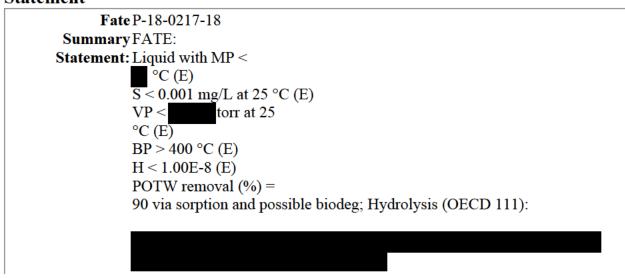
Ecotox Report for Case # P-18-0233

General



Fate Summary

Statement



Time for complete ultimate
aerobic biodeg ≥ mo
Sorption to soils/sediments = v.strong
PBT
Potential: P3B3
*CEB FATE: Migration to ground water =
negl
Bioconcentration factor to be put into E-FAST:
9000

Physical Chemical

Information

Molecular Weight: Wt% < 500: Wt% < 1000: Physical Solid **State - Neat:** Melting **Melting** Point (est): **Point:** MP **(EPI): Vapor Pressure:** Vapor Pressure (est): VP (EPI): Water Solubility: Water Solubility (est): **Water Solubility** (EPI): Henry's Law:: Log Koc: Log Koc (EPI): Log Log Kow (EPI): Kow: Log **Kow Comment:**

SAT

Concern Level

Concern Level	
Ecotox	1
Rating (1):	
Ecotox	
Rating Comment	
(1):	
Ecotox Rating	
(2):	
Ecotox	
Rating Comment	
(2):	

Ecotox Route of No releases to **Exposure:** water

Ecotox Comments

Exposure N
Based Review
(Eco):
Ecotox
Comments:
Exposure Based
Testing:

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1		

Eco-Toxicity Comment:

Fate Ratings

		U	-		Comment
Values		2	3	4	
3	Low	Moderate	Strong	V.	4
			_	Strong	
4	Extensive	Moderate	Low	Negligible	
4	Unknown	High	Moderate	Negligible	
	Unknown	Complete	Partial	_	
4	<=	Weeks	Months	> Months	
	Days				
	<=	Weeks	Months	> Months	
	Days				
4	<=	Weeks	Months	> Months	
	Days				
		Weeks	Months	> Months	
	4 4	3 Low 4 Extensive 4 Unknown Unknown 4 <= Days <= Days	3 Low Moderate 4 Extensive Moderate 4 Unknown High Unknown Complete 4 <= Weeks Days <= Weeks Days 4 <= Weeks	3 Low Moderate Strong 4 Extensive Moderate Low 4 Unknown High Moderate Unknown Complete Partial 4 <= Weeks Months Days <= Weeks Months Days 4 <= Weeks Months Days 4 <= Weeks Months Days	Values12343LowModerateStrongV. Strong4ExtensiveModerateLowNegligible4UnknownHighModerateNegligibleUnknownCompletePartial—4<=WeeksMonths> MonthsDays<=WeeksMonths> Months4<=WeeksMonths> MonthsDays<=WeeksMonths> Months4<=WeeksMonths> Months

Removal 9	0					
(Overall):						
Condition	Rating		Rating	Description		Comment
	Values	1	2	3	4	
Anaerobic		<=				
Biodeg Prim:		Days				
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) A:						
Hydrolysis (t1/2		<=	Hours	Days	>= Months	
at pH		Minutes				
7,25C) B:	1	37	Ctuana	Moderate	T	
Sorption to Soils/Sediments:	1	V. Strong	Strong	Moderate	Low	
Migration to	1	Negligible	Slow	Moderate	Rapid	
Ground Water:	1	regugiote	Slow	Wioderate	Rapid	
Photolysis A,		Negligible	Slow	Moderate	Rapid	
Direct:		regugiere	510 11	Wiodelate	rapra	
Photolysis B,		Negligible	Slow	Moderate	Rapid	
Indirect:		- 1 - 8 - 8				
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
A, OH:					•	
Atmospheric Ox		Negligible	Slow	Moderate	Rapid	
В, О3:						
Bio Comments: A						
fa	ate study su	ımmary is av	ailable.			
Fate Comments:						

Ecotoxicity Values

Test	Test Type	Test Endpoint	Predicted	Experimental Comments
organism				
Fish	96 -h	LC50	*	NES
Daphnid	48 -h	LC50	*	NES
Green Algae	96 -h	EC50	*	NES
Fish	-	Chronic Value	*	NES
Daphnid	-	Chronic Value	*	NES
Green Algae	-	Chronic Value	*	NES

Ecotox Value Predictions are based on SARs for polycationic

Comments: polymers (insoluble);

MP(P); S = negligible(P); effective

concentrations based on 100% active ingredients and mean measured

Test organism	Test Type	Test Endpoint	Predicted Experimental Comments
	oncentrations; l	nardness <150 mg/	/L as CaCO3; and TOC <2.0

Ecotox Factors

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Aquatic	NES	5/4	*	NES
(ppb):				
Chronic Aquatic	NES	10	*	NES
(ppb):				

Factors	Values	Comments
SARs:	Polycationic Polymers	
	Polymers-cationic-	
Class:	insoluble-	
TSCA NCC		_
Category?	Polycationic	
	Polymers	

Recommended

Testing:

Ecotox Factors Environmental

Comments: Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risks because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA estimated environmental hazard of this new chemical substance using hazard data on analogous chemicals. Based on these estimated hazard values, EPA concludes that this chemical substance has low environmental hazard.

- Substance falls within the TSCA New Chemicals Category of Polycationic Polymers.
- SAR chemical class of polymers-cationic-insoluble-
- For PMN low hazard based on no effects at saturation.

Environmental Risk:

•Risks were not identified for ecotoxicity.

Comments/Telephone Log

Artifact		Update/Upload
		Time